



Db 61 QVWFEQIAQFKPWTSPSCNSCELGIONLSFKVRSQMLAIGSSCGGRASLLDVITG 120  
Qy 121 RGHGKIKSGIOWINGOPSPQVLRKCAVHRQHNQLLNLTRETAFIAQWRLPRTFS 180  
Db 121 RGHGKIKSGIOWINGOPSPQVLRKCAVHRQHNQLLNLTRETAFIAQWRLPRTFS 180  
Qy 181 QAQRDKVEDVIAELRLRQCADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGLILDEPT 240  
Db 181 QAQRDKVEDVIAELRLRQCADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGLILDEPT 240  
Qy 241 SGLDSFTHAHLNLTSLAKGNRLVLISLHQPSSDIIFRLFDLVLLMTSGTPIYLGAAQHM 300  
Db 241 SGLDSFTHAHLNLTSLAKGNRLVLISLHQPSSDIIFRLFDLVLLMTSGTPIYLGAAQHM 300  
Qy 301 VOYFTAIGYPCPRYSNPADFYVDLTSIDRSRREQLATREKAQSLAALFLEKVRDLDEL 360  
Db 301 VOYFTAIGYPCPRYSNPADFYVDLTSIDRSRREQLATREKAQSLAALFLEKVRDLDEL 360  
Qy 361 WKAETKDLDEDTCEVSSVTPLDNTCLPSPKMPGAVQOFTTLIRROI SNDFRDLPTLLIH 420  
Db 361 WKAETKDLDEDTCEVSSVTPLDNTCLPSPKMPGAVQOFTTLIRROI SNDFRDLPTLLIH 420  
Qy 421 GAECALMSMTIGFLYFGHSGIQLSFMDTAALLFMIGALIPFNVLIDVISKYSERAMLYY 480  
Db 421 GAECALMSMTIGFLYFGHSGIQLSFMDTAALLFMIGALIPFNVLIDVISKYSERAMLYY 480  
Qy 481 ELEDGLYTTGYPFAKILGELPEHCAYIIYGMPTYMLANRLPGQLPFLHLLVWLVF 540  
Db 481 ELEDGLYTTGYPFAKILGELPEHCAYIIYGMPTYMLANRLPGQLPFLHLLVWLVF 540  
Qy 541 CCRIMAAAAALLPTFHMAFFSNALYNSFYLAGGFMINSLMTVPWISKVSFLRWCF 600  
Db 541 CCRIMAAAAALLPTFHMAFFSNALYNSFYLAGGFMINSLMTVPWISKVSFLRWCF 600  
Qy 601 EGLMKIOPSRTYKXPLGNLTIAVSGDKILSAMELDSYPLAIYIIVIGLSGGFMVLYY 660  
Db 601 EGLMKIOPSRTYKXPLGNLTIAVSGDKILSAMELDSYPLAIYIIVIGLSGGFMVLYY 660  
Qy 661 SLRFIKQKPSQDW 673  
Db 661 SLRFIKQKPSQDW 673

RESULT 2  
US-10-090-455-7  
; Sequence 7, Application US/10090455  
; Publication No. US20030027259A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Hongyun  
; APPLICANT: Le Bihan, Stephane  
; TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF  
; FILE REFERENCE: 100103.406  
; CURRENT APPLICATION NUMBER: US/10/090.455  
; CURRENT FILING DATE: 2002-03-01  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 673  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-090-455-7

Query Match 99.9%; Score 3502; DB 14; Length 673;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 672; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MAGKAAERGLPKGATPQDTSGLDRLPSSSDNSLYFTYSGQNTLEVRDLNLYQVDLAS 60  
Db 1 MAGKAAERGLPKGATPQDTSGLDRLPSSSDNSLYFTYSGQNTLEVRDLNLYQVDLAS 60  
Qy 61 QVWFEQIAQFKPWTSPSCNSCELGIONLSFKVRSQMLAIGSSCGGRASLLDVITG 120

Db 61 QVWFEQIAQFKPWTSPSCNSCELGIONLSFKVRSQMLAIGSSCGGRASLLDVITG 120  
Qy 121 RGHGKIKSGIOWINGOPSPQVLRKCAVHRQHNQLLNLTRETAFIAQWRLPRTFS 180  
Db 121 RGHGKIKSGIOWINGOPSPQVLRKCAVHRQHNQLLNLTRETAFIAQWRLPRTFS 180  
Qy 181 QAQRDKVEDVIAELRLRQCADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGLILDEPT 240  
Db 181 QAQRDKVEDVIAELRLRQCADTRVGNMYVRGLSGGERRRVSIGVQLLWNPGLILDEPT 240  
Qy 241 SGLDSFTHAHLNLTSLAKGNRLVLISLHQPSSDIIFRLFDLVLLMTSGTPIYLGAAQHM 300  
Db 241 SGLDSFTHAHLNLTSLAKGNRLVLISLHQPSSDIIFRLFDLVLLMTSGTPIYLGAAQHM 300  
Qy 301 VOYFTAIGYPCPRYSNPADFYVDLTSIDRSRREQLATREKAQSLAALFLEKVRDLDEL 360  
Db 301 VOYFTAIGYPCPRYSNPADFYVDLTSIDRSRREQLATREKAQSLAALFLEKVRDLDEL 360  
Qy 361 WKAETKDLDEDTCEVSSVTPLDNTCLPSPKMPGAVQOFTTLIRROI SNDFRDLPTLLIH 420  
Db 361 WKAETKDLDEDTCEVSSVTPLDNTCLPSPKMPGAVQOFTTLIRROI SNDFRDLPTLLIH 420  
Qy 421 GAECALMSMTIGFLYFGHSGIQLSFMDTAALLFMIGALIPFNVLIDVISKYSERAMLYY 480  
Db 421 GAECALMSMTIGFLYFGHSGIQLSFMDTAALLFMIGALIPFNVLIDVISKYSERAMLYY 480  
Qy 481 ELEDGLYTTGYPFAKILGELPEHCAYIIYGMPTYMLANRLPGQLPFLHLLVWLVF 540  
Db 481 ELEDGLYTTGYPFAKILGELPEHCAYIIYGMPTYMLANRLPGQLPFLHLLVWLVF 540  
Qy 541 CCRIMAAAAALLPTFHMAFFSNALYNSFYLAGGFMINSLMTVPWISKVSFLRWCF 600  
Db 541 CCRIMAAAAALLPTFHMAFFSNALYNSFYLAGGFMINSLMTVPWISKVSFLRWCF 600  
Qy 601 EGLMKIOPSRTYKXPLGNLTIAVSGDKILSAMELDSYPLAIYIIVIGLSGGFMVLYY 660  
Db 601 EGLMKIOPSRTYKXPLGNLTIAVSGDKILSAMELDSYPLAIYIIVIGLSGGFMVLYY 660  
Qy 661 SLRFIKQKPSQDW 673  
Db 661 SLRFIKQKPSQDW 673

RESULT 3  
US-09-989-981A-4  
; Sequence 4, Application US/09989981A  
; Publication No. US20030049730A1  
; GENERAL INFORMATION:  
; APPLICANT: Hobbs, Helen H.  
; APPLICANT: Shan, Bei  
; APPLICANT: Barnes, Robert  
; APPLICANT: Tian, Hui  
; APPLICANT: Tularik Inc.  
; APPLICANT: Board of Regents, The University of Texas System  
; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use  
; FILE REFERENCE: 018781-007320US  
; CURRENT APPLICATION NUMBER: US/09/989,981A  
; CURRENT FILING DATE: 2002-07-23  
; PRIOR APPLICATION NUMBER: US 60/252,235  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/253,645  
; PRIOR FILING DATE: 2000-11-28  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 672  
; TYPE: PRT  
; ORGANISM: Mus musculus  
; FEATURE:  
; OTHER INFORMATION: mouse ABCG8 (mABCG8)  
US-09-989-981A-4

Query Match 82.2%; Score 2883.5; DB 10; Length 672;

Best Local Similarity 81.9%; Pred. No. 1.7e-281;  
Matches 551; Conservative 52; Mismatches 69; Indels 1; Gaps 1;  
QY 1 MAGKAAERGLPKGATPQDTGLQDLRFSESDNSLYFTYQOPNTLEVRDLYNQVDIAS 60  
DB 1 MAEKTKEETQLWNGTVLQDASGLQDLSFSESDNSLYFTYQSQNTLEVRDLYNQVDIAS 60  
QY 61 QVPWFQLAQFQMPWTPSPCONSCELIGNLQFKVRSQOMLAIIGSSGGRASLLDVITG 120  
DB 61 QVPWFQLAQFQMPWTPSPCONSCELIGNLQFKVRSQOMLAIIGSSGGRASLLDVITG 120  
QY 121 RHGGKIKSGQIWINQSPSPOLVRKCVARVHQHQLLENLTVRETLAFIAQMLPRIFS 180  
DB 121 RHGGKIKSGQIWINQSPSPOLVRKCVARVHQHQLLENLTVRETLAFIAQMLPRIFS 180  
QY 181 QAQRKRVEDVIAELRLQCADTRVGNMVRGLSGGERRVISGVQVLLNPGILIDDEPT 240  
DB 181 QAQRKRVEDVIAELRLQCADTRVGNMVRGLSGGERRVISGVQVLLNPGILIDDEPT 240  
QY 241 SGLDSTFANHLVTLRLAKGNRLVLSLHQPRSDIFRLFDLVLLMTSGTPIYLGAQHM 300  
DB 241 SGLDSTFANHLVTLRLAKGNRLVLSLHQPRSDIFRLFDLVLLMTSGTPIYLGAQHM 300  
QY 301 VQYFTAGVPCPRYSNPADFYVDLTSIDRRSRQELATREKAQSLAALFLEKVRDLDDPL 360  
DB 301 VQYFTAGVPCPRYSNPADFYVDLTSIDRRSRQELATREKAQSLAALFLEKVRDLDDPL 360  
QY 361 WKAEKTDLDDETCVESVTPDNCPLSPPTKMGAVQOFTTLIRROISNDRDLPTLLIH 420  
DB 361 WKAEKTDLDDETCVESVTPDNCPLSPPTKMGAVQOFTTLIRROISNDRDLPTLLIH 420  
QY 421 GBAEACLSMTITGLYFGHGSIQLSFMDTAALLFMIGALIPFNVLDSKCYSERAMLY 480  
DB 421 GBAEACLSMTITGLYFGHGSIQLSFMDTAALLFMIGALIPFNVLDSKCYSERAMLY 480  
QY 481 ELSDGLYTTGYPYFAKILGELPEHCAYIIYGNPTWLANLRPGLOPFLHLFWLVV 540  
DB 481 ELSDGLYTTGYPYFAKILGELPEHCAYIIYGNPTWLANLRPGLOPFLHLFWLVV 540  
QY 541 CCRIMALAAALPTFHMASFFSNALYNSFYLAGGFMINLSSLTWTPAWISKVSFLRWC 600  
DB 541 CCRIMALAAALPTFHMASFFSNALYNSFYLAGGFMINLSSLTWTPAWISKVSFLRWC 600  
QY 601 EGLMKIOFSRRTYKMPGLNLTIAVSGDKILSAMELDSYPLAIYLVIGSGGMVLYY 660  
DB 601 EGLMKIOFSRRTYKMPGLNLTIAVSGDKILSAMELDSYPLAIYLVIGSGGMVLYY 660  
QY 661 SLRFKIKQPSQDW 673  
DB 661 SLRFKIKQPSQDW 673

RESULT 4  
US-10-415-378-9  
; Sequence 9, Application US/10415378  
; Publication No. US20040014945A1  
; GENERAL INFORMATION:  
; APPLICANT: INCITE CORPORATION; TANG, Y. Tom  
; APPLICANT: YUE, Henry; NGUYEN, Damiel B.;  
; APPLICANT: HAFALIA, April J.A.; ELLIOTT, Vicki S.;  
; APPLICANT: LU, Yan; CHAWLA, Narinder K.;  
; APPLICANT: YAO, Monique G.; BAUGHN, Mariah R.;  
; APPLICANT: GANDHI, Ameera R.; DING, Li;  
; APPLICANT: SANJANWALA, Madhusudan M.; RAMKUMAR, Jayalaxmi;  
; APPLICANT: ARVIZU, Chandra S.; GIETZEN, Kimberly J.;  
; APPLICANT: LAL, Preeti G.; AZIMZAI, Yalda;  
; APPLICANT: KHAN, Farrah A.; THANGAVELU, Kavitha;  
; APPLICANT: THORNTON, Michael B.; LU, Dyung Aina M.;  
; APPLICANT: TRIBOULEY, Catherine M.; WARREN, Bridget A.;  
; APPLICANT: ISON, H. Craig; DAS, Debopriya;  
; APPLICANT: RAUMANN, Brigitte E.; POLICKY, Jennifer L.;  
; APPLICANT: KEARNEY, Liam  
; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS

FILE REFERENCE: PI-0270 USN  
; CURRENT APPLICATION NUMBER: US/10/415,378  
; PRIOR FILING DATE: 2003-05-07  
; PRIOR APPLICATION NUMBER: PCT/US01/46055  
; PRIOR FILING DATE: 2001-10-27  
; PRIOR APPLICATION NUMBER: US 60/250,790  
; PRIOR FILING DATE: 2000-12-01  
; PRIOR APPLICATION NUMBER: US 60/252,232  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: US 60/249,661  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: US 60/247,673  
; PRIOR FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: US 60/245,904  
; PRIOR FILING DATE: 2000-11-03  
; PRIOR APPLICATION NUMBER: US 60/243,989  
; PRIOR FILING DATE: 2000-10-27  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PERL Program  
; SEQ ID NO 9  
; LENGTH: 374  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040014945A1 6585710CD1  
US-10-415-378-9  
Query Match 55.9%; Score 1961; DB 15; Length 374;  
Best Local Similarity 99.7%; Pred. No. 9.4e-189;  
Matches 373; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 300 MVQYFTAGVPCPRYSNPADFYVDLTSIDRRSRQELATREKAQSLAALFLEKVRDLDDF 359  
DB 1 MVHFTAGVPCPRYSNPADFYVDLTSIDRRSRQELATREKAQSLAALFLEKVRDLDDF 60  
QY 360 LWKAETDLDDETCVESVTPDNCPLSPPTKMGAVQOFTTLIRROISNDRDLPTLLI 419  
DB 61 LWKAETDLDDETCVESVTPDNCPLSPPTKMGAVQOFTTLIRROISNDRDLPTLLI 120  
QY 420 HGAECALMSMTITGLYFGHGSIQLSFMDTAALLFMIGALIPFNVLDSKCYSERAMLY 479  
DB 121 HGAECALMSMTITGLYFGHGSIQLSFMDTAALLFMIGALIPFNVLDSKCYSERAMLY 180  
QY 480 YELEDGLYTTGYPYFAKILGELPEHCAYIIYGNPTWLANLRPGLOPFLHLFWLVV 539  
DB 181 YELEDGLYTTGYPYFAKILGELPEHCAYIIYGNPTWLANLRPGLOPFLHLFWLVV 240  
QY 540 FCCRIMALAAALPTFHMASFFSNALYNSFYLAGGFMINLSSLTWTPAWISKVSFLRWC 599  
DB 241 FCCRIMALAAALPTFHMASFFSNALYNSFYLAGGFMINLSSLTWTPAWISKVSFLRWC 300  
QY 600 FEGLMKIOFSRRTYKMPGLNLTIAVSGDKILSAMELDSYPLAIYLVIGSGGMVLYY 659  
DB 301 FEGLMKIOFSRRTYKMPGLNLTIAVSGDKILSAMELDSYPLAIYLVIGSGGMVLYY 360  
QY 660 VSLRFKIKQPSQDW 673  
DB 361 VSLRFKIKQPSQDW 374  
RESULT 5  
US-10-424-599-175941  
; Sequence 175941, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 175941  
; LENGTH: 725  
; TYPE: PRT  
; ORGANISM: Glycine max  
; NAME/KEY: unsure  
; LOCATION: (1)..(725)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_129893C.1.pep.  
; OTHER INFORMATION: US-10-424-599-175941

Query Match 21.4%; Score 751; DB 12; Length 725;  
Best Local Similarity 30.9%; Pred. No. 4.1e-66;  
Matches 178; Conservative 115; Mismatches 229; Indels 54; Gaps 9;  
QY 60 SQVWFPEQLAQFKPWTSPSC-----QNSCELGIONLSFKVRSGQMLAIIGSSGCGRAS 113  
DB 61 AEAPTSKVTPTVQWRNINCSLSDKSKSARFLTKNVSGEAKPEKRLAIIMGPSGSKTT 120  
QY 114 LLDVITG-----RHGGKIKSGQTWINGQPSSPOLVRKCVAHVRQHNLPLNLTVRETL 167  
DB 121 LLNVLAGQLTASPRHL-----LSGVLEFGKPGSKNAVYK--PAYVVRQSDLPFSQLTVRETL 174  
QY 168 APIAQMRLPRTFSQQRKRVEDVIAELRLQCADTRVGNMYVRLSGGERRRVSIQVQL 227  
DB 175 SLATELOLPTSSAEERDEFVNNLLFKLGVSCADTVGDAKVRGIGSGEKRLUSMACEL 234  
QY 228 LWNPGILIDPTSGLDSTAHNLVKTLSRLAKGNRLVLSLHQPSPDIFRFLDLVILMT 287  
DB 235 LASPSVIADEPTTGLDAFOAEKWEIQLQAQDGHVICSIHQPRGVSYSKFDIILLT 294  
QY 288 SGTPIYLGAQ--HMVQYTAIGYPCPNYPADFDVLTSDRSRECELATREKAQSLA 346  
DB 295 EGSLYAGPARDPLAYFSKFGYQCPDHPNFAEFLADLISIDYSSADSVYTSQKEPTGLV 354  
QY 347 ALFLKVRDLDDFLWKAETKDLDETCVSSV---TPLDTCNCLSPPTK--MEGAV----- 396  
DB 355 EFSQR-----QSAVIYATPTINDLSNRKKISQRAVVKKG 392  
QY 397 ---QOFTLIRQISNDRFDLPTLLHGAACLMSTMTGFLYFGHSGTSLFMTAALLF 453  
DB 393 VVMQFXLLKRAMQASRDAPTNKVRARMSIASAIFGVSFVRMGNSQTSIQDRMGLLQ 452  
QY 454 MIGALIPFNVLVDISKYSERAMLYELEDGLYTTGYPFFAKILGELPEHCAYIIYGM 513  
DB 453 VTAINTAALTKTVGVFPKERAIVDREKAGSYSLGPLYLSKLLAEIPIGAAPLMGA 512  
QY 514 PTYMLANRPGQLPFLHLLVYVFCRIMALAAALLPTFFHMASFFSNALYNSFYLA 573  
DB 513 VLYPWARLHPTWQRFKFCGIVTMSFAASAMGLTVGAMVPTTEAAMAVGPSLMTVTFV 572  
QY 574 GGFMINLSLWTPAWISKVSFLRWCFEGLMKIQFS 609  
DB 573 GGYVNPENTPIIFRWPNVPSLIRWAFQGLSINEFS 608

RESULT 6  
US-09-837-992-3  
; Sequence 3, Application US/09837992  
; Patent No. US20020081687A1  
; GENERAL INFORMATION:  
; APPLICANT: Tian, Hui  
; APPLICANT: Schultz, Joshua  
; APPLICANT: Shan, Bei  
; APPLICANT: Tularik Inc.  
; TITLE OF INVENTION: Siderosterolemia Susceptibility Gene (SSG): Compositions  
; TITLE OF INVENTION: and Methods of Use  
; FILE REFERENCE: 018781-006020US  
; CURRENT APPLICATION NUMBER: US/09/837,992

; CURRENT FILING DATE: 2001-04-18  
; PRIOR APPLICATION NUMBER: US 60/198,465  
; PRIOR FILING DATE: 2000-04-18  
; PRIOR APPLICATION NUMBER: US 60/204,234  
; PRIOR FILING DATE: 2000-05-15  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3  
; LENGTH: 651  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: human siderosterolemia susceptibility gene (SSG)  
; OTHER INFORMATION: amino acid sequence  
; OTHER INFORMATION: US-09-837-992-3

Query Match 19.9%; Score 697; DB 9; Length 651;  
Best Local Similarity 28.9%; Pred. No. 9.8e-61;  
Matches 187; Conservative 124; Mismatches 241; Indels 96; Gaps 16;  
QY 16 TPQDSGLQDLRFSSSDNSLYFTYSGQPTLEVRDLNVQVDSLQVWFPEQLAQFKPWF 75  
DB 8 TGGSGMLQVNRGSSQSSLEGAPAT-APPHSILGILHASYSVSHRYR-PWMD-ITSCRQW 64  
QY 76 TSPSCNSCELGIONLSFKVRSGQMLAIIGSSGCGRASLLDVITGR-GHGGKIKSGQTI 134  
DB 65 TRQI-----LKDVSLYVESQIMCILGSSSGSKTLLDAMSGRLGRAGTF-LGEVYV 115  
QY 135 NGOPSSPOLVRKCVAHVRQHNLPLNLTVRETLAFLAIOMLPRTFSQQRKRVEDVIAE 194  
DB 116 NGRALRREFQOCFSVLQSDTLLSLLTVRETLHYTALLAI-RRGNPGSFQKKEAVWAE 174  
QY 195 LRLRQCADTRVGNMYVRLSGGERRRVSTGVQLLWNPGLILIDETSGLDSTAHNLVKT 254  
DB 175 LSLSHVADRLIGNYSLGGISTGERRRVSIAAQLQDPKVMLEDEPTTGLDCTANQIVVL 234  
QY 255 LSELAKGNRLVLSLHQPSPDIFRFLDLVLLMTSGTFIYLGAAQHMVQYTAIGYPCPY 314  
DB 235 LVELAARNIVLVITHQPRSELFQDFDKIAILUSFGLIFCGTPEMLDFNDCGFCPEH 294  
QY 315 SNFADYVLTSDRSRECELATREKAQSLAALF-----LEKVRDLDDFLWK 362  
DB 295 SNFPDFYMDLTSVDTQSKEREIETSKRVQWISSAVKSAICHKTKNIEMKHL----- 348  
QY 363 AETKDLDETCVSSVTPDTCNCLSPPTK-MPCAVQOFTTLIRROI-SNDRFDLPTLLHG 421  
DB 349 -----KTLPM-----VPPKTKDSPGVSKLGVLLRRVTRNLVRNKLAVITEL 390  
QY 422 AEACLSMTIGFLYFG-----HGSIQLSFMDBTAALLFMIGALIPFNVLVDISKYSER 475  
DB 391 LQNLINGLFLFFVLVRVSNVLKGAIQ-----DRVGLYQFVGATPYTGMLNANLPPVLR 446  
QY 476 AMLYELEBGLYTTGYPFFAKILGELPEHCAYIIYGMFTYMLANRPGQLPFLHLLV 535  
DB 447 AVSDQSSQDGLYQKQWQMLAYALHVLFPFSVATMTIPFSVCYWTGLJHPEVARF----- 499  
QY 536 WLTVFCRIMALAAALLPTFFHMASPFS-----NALYNSFYLAG-----GPM 577  
DB 500 -----GYFSAALLAPHLIGEELTLVLLGIQVQNPVNSVWALLSIAGVLVSGFL 549  
QY 578 INLSLWTPAWISKVSFLRWCFEGLMKIQFSRRTYKMPGLNLTIAVS 625  
DB 550 RNIQEMPIPPKIISYFTFOKYCSEILVWNEFYGLNFTCGSSNVSVTTN 597

RESULT 7  
US-09-989-981A-6  
; Sequence 6, Application US/09989981A  
; Publication No. US20030049730A1  
; GENERAL INFORMATION:  
; APPLICANT: Hobbs, Helen H.  
; APPLICANT: Shan, Bei  
; APPLICANT: Barnes, Robert

APPLICANT: Tian, Hui  
APPLICANT: Tularik Inc.  
APPLICANT: Board of Regents, The University of Texas System  
TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use  
FILE REFERENCE: 018781-007320US  
CURRENT APPLICATION NUMBER: US/09/989,981A  
CURRENT FILING DATE: 2002-07-23  
PRIOR APPLICATION NUMBER: US 60/252,235  
PRIOR FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: US 60/253,645  
PRIOR FILING DATE: 2000-11-28  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 651  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: human ABCG5 (hABCG5)  
US-09-989-981A-6

Query Match 19.9%; Score 697; DB 10; Length 651;  
Best Local Similarity 28.9%; Pred. No. 9.8e-61;  
Matches 187; Conservative 124; Mismatches 241; Indels 96; Gaps 16;

QY 16 TPQDTSGLODRFSSSDNSLYFTYSGQPNTELEVRDLNYQVDLASQVFWFQLAQFKPMW 75  
DB 8 TFGSMGLQVNRGSSQSLGAPAT-APBPHSLGILHASYSVSHRVR-PWMD-ITSCROQM 64  
QY 76 TSPSCNSCELGIONLSFKVRSQMLAIGSSGCGRASLLDVITGR-CHGGKIKSGQIWI 134  
DB 65 TRQI-----LKDVSLYVESQINCILGSSGSGKTLILDAMSGRLGRATF-LGEVYV 115  
QY 135 NGQSPSPOLVRKCVARVROHNOPLLNTVRETLAFIAQMLRPTFSQAKRDEVEDVIAE 194  
DB 116 NGRALRREQDFCSVYLDSDTLSSLTVRETLHYTALLAI-RRGNPGSFQKKEAVMAE 174  
QY 195 LRLRQCADTRVGNMYRGLSGGERRRVSIGVQLLWNPGLILDEPTSGLDSTFAHNLVKT 254  
DB 175 LSLSHVADRLIGNYSLGGISTGERRRVSIAAQLQDPKVMLEDEPTTGLDCMTANQIVVL 234  
QY 255 LSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGTPIYLGAAQHMVQVFTAGYPCPRY 314  
DB 235 LVELARRNRIVLTHQPSRSEIFQFDKAILSFGLIFCGTPAEMLDFNDCGYPCEH 294  
QY 315 SNPAPFYDLTSDIRRSRQELATEKQAQSLAALF-----LEKVRDLDDFLWK 362  
DB 295 SNPFDFYMDLTSVDTQSKEREIETSKRVQMIESAYKKAICHKTLKNIERMKHL----- 348  
QY 363 AETHKOLDEDTCVSSSVTPLDNTCLSPPTK-MPGAVQOFTTLIRROISNDPRDLPTLLIHG 421  
DB 349 -----KTLPM-----VPPKTKDSPGVFSKGLVLLRRVTRNLVRNKLAVITRL 390  
QY 422 ABACLSMTIGLYFG-----HGSIQLSFMDTAALLFMIGALIPFNVLIDVSKYCYER 475  
DB 391 LQNLINGLFLFFVLRVRSNVLKGAIQ---DRVGLLYQFVGATPYTGMLNANVLPVLR 446  
QY 476 AMLYYELEGLYTTGYPYFAKILGELPEHCAYIIYGMPTYWLANLRPGLOPFLHFLV 535  
DB 447 AVSDQESQDGLYQKQWMLAYALHVLFPFSSVATMIFSSVCYWTGLHPEVARF----- 499  
QY 536 WLWVFCCRIMAAAAALLPTFHMASPFS-----NALYNSFYLAG-----GFM 577  
DB 500 -----GYFSAALLAPHLIGEFLTLVLGIVQNPVNSVALLSIAGVLVSGFL 549  
QY 578 INLSSLTWPANISKVSFLRWCFEGMLKIQFRRYKMPGLNLTAVS 625  
DB 550 RNIQEMPFPKIIISYFTFKYCYEILLVNEFYGLNFTCGSSNSVVTN 597

RESULT 8  
US-10-090-455-6  
; Sequence 6, Application US/10090455

Publication No. US20030027259A1  
GENERAL INFORMATION:  
APPLICANT: Chen, Hongyun  
APPLICANT: Le Bhan, Stephanie  
TITLE OF INVENTION: NOVEL ABCG4 TRANSPORTER AND USES THEREOF  
FILE REFERENCE: 100103.406  
CURRENT APPLICATION NUMBER: US/10/090,455  
CURRENT FILING DATE: 2002-03-01  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 6  
LENGTH: 651  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-090-455-6

Query Match 19.9%; Score 697; DB 14; Length 651;  
Best Local Similarity 28.9%; Pred. No. 9.8e-61;  
Matches 187; Conservative 124; Mismatches 241; Indels 96; Gaps 16;

QY 16 TPQDTSGLODRFSSSDNSLYFTYSGQPNTELEVRDLNYQVDLASQVFWFQLAQFKPMW 75  
DB 8 TFGSMGLQVNRGSSQSLGAPAT-APBPHSLGILHASYSVSHRVR-PWMD-ITSCROQM 64  
QY 76 TSPSCNSCELGIONLSFKVRSQMLAIGSSGCGRASLLDVITGR-CHGGKIKSGQIWI 134  
DB 65 TRQI-----LKDVSLYVESQINCILGSSGSGKTLILDAMSGRLGRATF-LGEVYV 115  
QY 135 NGQSPSPOLVRKCVARVROHNOPLLNTVRETLAFIAQMLRPTFSQAKRDEVEDVIAE 194  
DB 116 NGRALRREQDFCSVYLDSDTLSSLTVRETLHYTALLAI-RRGNPGSFQKKEAVMAE 174  
QY 195 LRLRQCADTRVGNMYRGLSGGERRRVSIGVQLLWNPGLILDEPTSGLDSTFAHNLVKT 254  
DB 175 LSLSHVADRLIGNYSLGGISTGERRRVSIAAQLQDPKVMLEDEPTTGLDCMTANQIVVL 234  
QY 255 LSLAKGNRLVLSLHQPBSDIFRLFDVLMTSGTPIYLGAAQHMVQVFTAGYPCPRY 314  
DB 235 LVELARRNRIVLTHQPSRSEIFQFDKAILSFGLIFCGTPAEMLDFNDCGYPCEH 294  
QY 315 SNPAPFYDLTSDIRRSRQELATEKQAQSLAALF-----LEKVRDLDDFLWK 362  
DB 295 SNPFDFYMDLTSVDTQSKEREIETSKRVQMIESAYKKAICHKTLKNIERMKHL----- 348  
QY 363 AETHKOLDEDTCVSSSVTPLDNTCLSPPTK-MPGAVQOFTTLIRROISNDPRDLPTLLIHG 421  
DB 349 -----KTLPM-----VPPKTKDSPGVFSKGLVLLRRVTRNLVRNKLAVITRL 390  
QY 422 ABACLSMTIGLYFG-----HGSIQLSFMDTAALLFMIGALIPFNVLIDVSKYCYER 475  
DB 391 LQNLINGLFLFFVLRVRSNVLKGAIQ---DRVGLLYQFVGATPYTGMLNANVLPVLR 446  
QY 476 AMLYYELEGLYTTGYPYFAKILGELPEHCAYIIYGMPTYWLANLRPGLOPFLHFLV 535  
DB 447 AVSDQESQDGLYQKQWMLAYALHVLFPFSSVATMIFSSVCYWTGLHPEVARF----- 499  
QY 536 WLWVFCCRIMAAAAALLPTFHMASPFS-----NALYNSFYLAG-----GFM 577  
DB 500 -----GYFSAALLAPHLIGEFLTLVLGIVQNPVNSVALLSIAGVLVSGFL 549  
QY 578 INLSSLTWPANISKVSFLRWCFEGMLKIQFRRYKMPGLNLTAVS 625  
DB 550 RNIQEMPFPKIIISYFTFKYCYEILLVNEFYGLNFTCGSSNSVVTN 597

RESULT 9  
US-09-837-992-1  
; Sequence 1, Application US/09837992  
; Patent No. US20020081687A1  
GENERAL INFORMATION:  
APPLICANT: Tian, Hui  
APPLICANT: Schultz, Joshua  
APPLICANT: Shan, Bei

; APPLICANT: Tularik Inc.  
 ; TITLE OF INVENTION: Stitosterolemia Susceptibility Gene (SSG): Compositions  
 ; FILE OF INVENTION: and Methods of Use  
 ; FILE REFERENCE: 018781-006020US  
 ; CURRENT APPLICATION NUMBER: US/09/837,992  
 ; CURRENT FILING DATE: 2001-04-18  
 ; PRIOR APPLICATION NUMBER: US 60/198,465  
 ; PRIOR FILING DATE: 2000-04-18  
 ; PRIOR APPLICATION NUMBER: US 60/204,234  
 ; PRIOR FILING DATE: 2000-05-15  
 ; NUMBER OF SEQ ID NOS: 45  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 1  
 ; LENGTH: 652  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; FEATURE:  
 ; OTHER INFORMATION: mouse sitosterolemia susceptibility gene (SSG)  
 ; OTHER INFORMATION: amino acid sequence  
 US-09-837-992-1

Query Match 19.6%; Score 688.5; DB 9; Length 652;  
 Best Local Similarity 28.1%; Pred. No. 7.1e-60;  
 Matches 188; Conservative 125; Mismatches 233; Indels 123; Gaps 16;  
 QY 45 NTLEVRDLNYQVDLASQV-PWFEQLAQFMPWTSQNSCELGI-QNLSFKVRSQOMLA 102  
 DB 37 HSLGVLVHSYSV-SNRVGPW-----WNKSCQCKWDRQILKXVSLYIESGQIMC 84  
 QY 103 IIGSSCGRASLLDVTGRGHGKIKSGQIWINGPSPQPVKVCVAHVQHNOLLNLT 162  
 DB 85 ILGSSGSKTLLDAISGLRRTGTLEGEVFNVCGLRRDQFCFSYVLSQDVFSLST 144  
 QY 163 VRETLAFIAQMLPRTFQAQRDKVEDVIAELRLRQCADTRVGNMVRGLSGGERRVS 222  
 DB 145 VRETLRYTAMALCRS-SADFYKVKVEAVMTLSLHVADQMGVSYNFGGSSGERRVS 203  
 QY 223 IGVLWNPGLILDEPTSGDLSFTAHLNVLKTLRSLAKGNRLVLISLHOPRSDIFRLPDL 282  
 DB 204 IAAQLQDPKVMLEDEPTTGLDCMTANQIVLLAEALREDRIVITVHQPSRSELFQHFDX 263  
 QY 283 VLLMTSGTPIYLGAACHVQVFTALGYPCPRYSNPADFYVDLTSIDRRSRQELATREKA 342  
 DB 264 IAILTYGELVFCGTEEMLGFPNNGCYPCPEHNSPFDYMDLTSVDTSREREIETKRV 323  
 QY 343 QSLAALF-----LEKVRDLDDFLMKAETKDLDEDCVSSVTPDNTCLPSPT 390  
 DB 324 QMLECAFKESDIYHKILENIERARYL-----KTLPM-----VPFKT 359  
 QY 391 K-MPGAVQQTTLIRQISNDPRDLPTLLIHGAACLSMTIGF--LYFGHGSQLSFMD 447  
 DB 360 KDPGMEFGKLVLLRRVTRNLNRKQAVIMRLVQNLINGLFLIFVLLRVQNTLKAVQD 419  
 QY 448 TAALLFMIGALIPFNVLIDVISKYSERAMLYELEDGLYTTGTPYFFAKILGELPHECAY 507  
 DB 420 RVGLLYQLVGATPYTGMLNAVNLPMLRAVSDQESQDGLYHKWQMLLAYLVLPFVSIA 479  
 QY 508 ILLYGMPTWLANRBLGLOPELHLLVWLVFCCRIMALAAALPTFHMASFFSNAL- 566  
 DB 480 TWIFSSVCVWTGLYPEVARF-----GYFSAALLAPHLIGEFLLTVLL 522  
 QY 567 -----YNSFYLAGGFMINLSSLTVPWATISKVSLRWCFEGLMKIQPS 609  
 DB 523 GIVQNPNI VNSIVALLSISGLLIGSFIRNIQEMPIPLKILGYFTFKYCCILLVNEF- 581  
 QY 610 RRTYKMPGLNLTAVSGDKLSAMELDSYPLVYAI-----YLVVI 648  
 DB 582 ----YGLI---NFTCGGNTSML-----NHPMCAITQGVQFIKTCPCGATSTANFLILY 629  
 QY 649 GLSGGFVIL 657  
 DB 630 GPILAVIL 638

RESULT 10

US-09-989-981A-2  
 ; Sequence 2, Application US/099898981A  
 ; Publication NO. US20030049730A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hobbs, Helen H.  
 ; APPLICANT: Shan, Bei  
 ; APPLICANT: Barnes, Robert  
 ; APPLICANT: Tian, Rui  
 ; APPLICANT: Tularik Inc.  
 ; TITLE OF INVENTION: ABCG5 and ABCG8: Compositions and Methods of Use  
 ; FILE REFERENCE: 018781-007320US  
 ; CURRENT APPLICATION NUMBER: US/09/989,981A  
 ; CURRENT FILING DATE: 2002-07-23  
 ; PRIOR APPLICATION NUMBER: US 60/252,235  
 ; PRIOR FILING DATE: 2000-11-20  
 ; PRIOR APPLICATION NUMBER: US 60/253,645  
 ; PRIOR FILING DATE: 2000-11-28  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 652  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; FEATURE:  
 ; OTHER INFORMATION: mouse ABCG5 (mABCG5)  
 US-09-989-981A-2

Query Match 19.6%; Score 688.5; DB 10; Length 652;  
 Best Local Similarity 28.1%; Pred. No. 7.1e-60;  
 Matches 188; Conservative 125; Mismatches 233; Indels 123; Gaps 16;  
 QY 45 NTLEVRDLNYQVDLASQV-PWFEQLAQFMPWTSQNSCELGI-QNLSFKVRSQOMLA 102  
 DB 37 HSLGVLVHSYSV-SNRVGPW-----WNKSCQCKWDRQILKXVSLYIESGQIMC 84  
 QY 103 IIGSSCGRASLLDVTGRGHGKIKSGQIWINGPSPQPVKVCVAHVQHNOLLNLT 162  
 DB 85 ILGSSGSKTLLDAISGLRRTGTLEGEVFNVCGLRRDQFCFSYVLSQDVFSLST 144  
 QY 163 VRETLAFIAQMLPRTFQAQRDKVEDVIAELRLRQCADTRVGNMVRGLSGGERRVS 222  
 DB 145 VRETLRYTAMALCRS-SADFYKVKVEAVMTLSLHVADQMGVSYNFGGSSGERRVS 203  
 QY 223 IGVLWNPGLILDEPTSGDLSFTAHLNVLKTLRSLAKGNRLVLISLHOPRSDIFRLPDL 282  
 DB 204 IAAQLQDPKVMLEDEPTTGLDCMTANQIVLLAEALREDRIVITVHQPSRSELFQHFDX 263  
 QY 283 VLLMTSGTPIYLGAACHVQVFTALGYPCPRYSNPADFYVDLTSIDRRSRQELATREKA 342  
 DB 264 IAILTYGELVFCGTEEMLGFPNNGCYPCPEHNSPFDYMDLTSVDTSREREIETKRV 323  
 QY 343 QSLAALF-----LEKVRDLDDFLMKAETKDLDEDCVSSVTPDNTCLPSPT 390  
 DB 324 QMLECAFKESDIYHKILENIERARYL-----KTLPM-----VPFKT 359  
 QY 391 K-MPGAVQQTTLIRQISNDPRDLPTLLIHGAACLSMTIGF--LYFGHGSQLSFMD 447  
 DB 360 KDPGMEFGKLVLLRRVTRNLNRKQAVIMRLVQNLINGLFLIFVLLRVQNTLKAVQD 419  
 QY 448 TAALLFMIGALIPFNVLIDVISKYSERAMLYELEDGLYTTGTPYFFAKILGELPHECAY 507  
 DB 420 RVGLLYQLVGATPYTGMLNAVNLPMLRAVSDQESQDGLYHKWQMLLAYLVLPFVSIA 479  
 QY 508 ILLYGMPTWLANRBLGLOPELHLLVWLVFCCRIMALAAALPTFHMASFFSNAL- 566  
 DB 480 TWIFSSVCVWTGLYPEVARF-----GYFSAALLAPHLIGEFLLTVLL 522  
 QY 567 -----YNSFYLAGGFMINLSSLTVPWATISKVSLRWCFEGLMKIQPS 609  
 DB 523 GIVQNPNI VNSIVALLSISGLLIGSFIRNIQEMPIPLKILGYFTFKYCCILLVNEF- 581



QY 546 ALAAALPTFHMAFSPNALYNSFYLAGGFMINSLSLWTPAW---ISKVSFLWCFFEG 602  
DB 520 MMVVASLVNFMGLGIIAGGIIIGMMTSGFRLLSDL-EPKVMRYPDISISYGSNAIQG 578  
QY 603 -----LAKIQSPRRYKMPGLNLTIAVSGDKILSAM---ELDS---YPLVAYIYLVIGLS 651  
DB 579 SYKNDLLGLEFD-----PLLPDGPDKLTGVEVITHMGLIELNHSKWDLAALFVILI--- 629  
QY 652 GGFVLYTVSURFIKQKPS 670  
DB 630 -CYRLLPFTVLKP-KERAS 646

RESULT 13  
US-10-108-605-245  
; Sequence 245, Application US/10108605  
; Publication No. US20020160934A1  
; GENERAL INFORMATION:  
; APPLICANT: Broadus, Julie  
; APPLICANT: Stam, Lynn  
; APPLICANT: Bachmann, Jane  
; APPLICANT: Kandar, Kim  
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES FROM DROSOPHILA MELANOGASTER THAT ENCODE  
; TITLE OF INVENTION: PROTEINS ESSENTIAL FOR LARVAL VIABILITY AND USES THEREOF  
; FILE REFERENCE: 311338  
; CURRENT APPLICATION NUMBER: US/10/108,605  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: US 09/761,142  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/176,418  
; PRIOR FILING DATE: 2000-01-14  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 245  
; LENGTH: 663  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-10-108-605-245

Query Match 18.7%; Score 656; DB 13; Length 663;  
Best Local Similarity 30.3%; Pred. No. 1.4e-56;  
Matches 178; Conservative 113; Mismatches 265; Indels 32; Gaps 10;

QY 88 IONLSFKYRSGOMLAIIGSSGGRASLDVITGRGHG--KIKSGQIWINQSPSPOLVR 145  
DB 89 LKNVCGVAYPGLLAVMSSGAGKTLNLNAFSPQIQVSPSGMRLNQCQPDAKEMQ 148  
QY 146 KCAVHRQHNQLPLNLTRETIAFIAQMLPRTFSQAQRDKRVEDVIAELRLQCADTV 205  
DB 149 ARCAVQDDLFISLUTAREHLIFQAVMVRPHLTQRQVARVDQVIQELSLSKQHTII 208  
QY 206 G-NMVRGLSGERRRVSIGVOLLWNPGLILDEPTSGLDSTTAHNLVKTLRLAKGNRL 264  
DB 209 GVFGKVLGGGERKRAFASALTPPELLICDEPTSGLDSTTAHNSVQVLUKLSQKGT 268  
QY 265 VLISLHQPSRDTFRILDVILMTSGTPIYLGAAQHMVQYFTAIGYPCPRYNSPADFYVDL 324  
DB 269 VILTHQPSSELFELFDKILLMAECRAVFLGTPSEAVDFSVGAQCPTNVNPAFVYQV 328  
QY 325 TSIDRRSREQLATREKAQSLAALP-LEKV-RDLDDFLWKAETKDLDBDTCVSSVPLD 382  
DB 329 LAV---VFGRETESRDRIAKICDNFAISKVARDMEQLL---ATKNLEK-----PLE 373  
QY 383 TNCPLSP---TKMPGAVQOFTTLRRQISNDFRDLPTLLIHGAECALMSMTIGFLYPGH 438  
DB 374 -----QPENGYTYKATWNPQFRAVLWRSLVSLKEPLLVKVRLIQTWAILIGLILGQ 428  
QY 439 GSIQSFMDTAALLFMIGALIPFNVLVDISKYGERAMLYELEDGYTTGTPFFAKIL 498  
DB 429 QLTQGVNMINGAIELFLTNTMTFQNVFATINVTSELVFMREARSRLRYCDTVFLGKTI 488  
QY 499 GELPEHCAYIIYGMPTYWLANLRPLGLQFLLHFLVWLVPFCCRIMALAAALPTPHM 558

DB 489 AELPLFLTVPLVFTALAYPMIGLRAGVLHFFNCIALAVTLVANVSTSFQYLISCASSSTSM 548  
QY 559 ASFPFNALYNSFYLAGGFMINSLSLWTPAWISKVSLRWCFCFEGMKIQPS---RRTYKM 615  
DB 549 ALSVGPPIIIFLLPFGGFLNSGVVYLKWLSTLSWFRYANEBGLLINQWADVPEGEISC 608  
QY 616 PLGNLTIAVSGDKILSAMELDSYPLVAYIYLVIGLSGGMVLYVYVSLR 663  
DB 609 TSSNTCPSSGKVLLETTLNFSAADPLDYGVLAILIVSFRVLAYLALR 656

RESULT 14  
US-09-981-353-35  
; Sequence 35, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 35  
; LENGTH: 655  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 5517972CD1  
US-09-981-353-35

Query Match 18.3%; Score 642.5; DB 9; Length 655;  
Best Local Similarity 27.2%; Pred. No. 3.1e-55;  
Matches 187; Conservative 139; Mismatches 273; Indels 89; Gaps 21;

QY 19 DTSGLDRLFSSEDSNLSVFTYSGQPNTLEVRDLNQVDLASQVFWFQLAQFKMFWTSP 78  
DB 16 NING-----FPATASNDLKAFTEGA--VLSFHNICYRVKLKSGF-----LP---- 54  
QY 79 SCONSCELGI-QNLGPKVRSQMLAIIGSSGGRASLDVITGRGHGKIKSGQIWINQ 137  
DB 55 -CRKPEKEILSNINGIMKPG-LNALIGTGGKSLDLDVLAARKDPSGL-SGDVLINGA 111  
QY 138 PSSPQLVRKC-VAHVROHNQLPLNLTRETIAFIAQMLPRTFSQAQRDKRVEDVIAELR 196  
DB 112 PRPANT--KNSGYVVQDDVVGTLTVRENLOFSALRALATTWNHKNRINRVIQELG 169  
QY 197 LRQCADTRYGNMYVRGLSGERRRVSIGVOLLWNPGLILDEPTSGLDSTTAHNLVKTL 256  
DB 170 LDKVADSKVGTQFIRGVSGERKRTSIGMELITDPSILFLDEPTTGLDSTANAVLLIK 229  
QY 257 RLAKGNELVLSLHQPSSDIFELFDVILMTSGTPIYLGAAQHMVQYFTAIGYPCPRYN 316  
DB 230 RMSQQRITIFSILHQPRYSIFKFLPSLTLASGRMLFHGPAQEAALGYFESAGYHCEAYN 289  
QY 317 PADFYVDLTSIDRR-----SREQLATRE--KAQSLAALFLEKVRDL--DDFLWKAETK-- 366  
DB 290 PADFDLIIINGDSTAVALNREEDFKATEIIEPSKQPLIEKLAELIYVNSFVK-ETKAE 348  
QY 367 -----DDEDTCVSSVTPDNTCLPSTKMPGVQOFTTLIRQISNDFRDLPTLLI 419  
DB 349 LHQLSGEKKKITVFKEISYTTSPFC-----HOLRWVSKRSFKNLGNPOASTA 397  
QY 420 HGAECALMSMTIGFLYFGHGSIQLSFMDTAALLFMIGALIPFNVLIDVLSKYS----- 473  
DB 398 QIIVTVVLGVIGAIYFGLKNDSTGQNRAGVLFFL-----TTNQCFSSVSAYE 446  
QY 474 -----ERAMLYELEDGYTTGTPFFAKILGE-LPEHCAYIIYGMPTYWLANLRPLGLQ 528  
DB 447 LFVVEKKLFIHEYISGYRVSYSYFLGKLSDLPLMRMLPSIIFTCTIVFMLGLKPKADAP 506



QY 529 LLHFLVLMVWFCRIMALAALPTFHMASFFSNALYNSFYLAGGFMINLSLWTPA 588  
 Db 507 FVMFTLMMVAYSASSMALAIAAGQSVSVATLLMTICFVFMIFSGLLVNLTTIASWLS 566  
 QY 589 WISKVSEFLWCPEGLMKIOFSRTYKPLGNLT-----IAVSGDKIL--SAMELDSYP 639  
 Db 567 WLQYFSIPRYGFTALQHNEFLQGNF--CPGLNATGNNPCNYATCTGEEYLVKQIGIDLSPWG 625  
 QY 640 LYAIVLIVIGLSGGFMVLYVSLRFIKQ 667  
 Db 626 LMKHVALACMIVIFLTIAVLLKLLFKX 653

RESULT 15  
 US-10-120-687-61  
 ; Sequence 61, Application US/10120687  
 ; Publication No. US20030082155A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Massachusetts General Hospital  
 ; TITLE OF INVENTION: Stem Cells of the Islets of Langerhans and Their Use in Treating  
 ; FILE REFERENCE: 3284/1235B  
 ; CURRENT APPLICATION NUMBER: US/10/120,687  
 ; CURRENT FILING DATE: 2002-04-11  
 ; PRIOR APPLICATION NUMBER: US60/169082  
 ; PRIOR FILING DATE: 1999-12-06  
 ; PRIOR APPLICATION NUMBER: US 09/963,875  
 ; PRIOR FILING DATE: 2001-09-25  
 ; PRIOR APPLICATION NUMBER: US 60/215109  
 ; PRIOR FILING DATE: 2000-06-28  
 ; PRIOR APPLICATION NUMBER: US 60/238880  
 ; PRIOR FILING DATE: 2000-10-06  
 ; PRIOR APPLICATION NUMBER: US 09/731261  
 ; PRIOR FILING DATE: 2000-12-06  
 ; NUMBER OF SEQ ID NOS: 61  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 61  
 ; LENGTH: 655  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-120-687-61

Query Match 18.3%; Score 642.5; DB 14; Length 655;  
 Best Local Similarity 27.2%; Pred. No. 3.1e-55;  
 Matches 187; Conservative 139; Mismatches 273; Indels 89; Gaps 21;  
 QY 19 DTSLQDRLFSSSDNSLFTYSGQPTLEVRDLAYQVDLASQVWFBQLAQFKMWTSP 78  
 Db 16 NTNG-----FPATASNDLKAFTEGA--VLSEFNICYRVKLSGF-----LP---- 54  
 QY 79 SCQNSCELGT-QNLSFKVRSQMLAIGSSGCGRASLLDVITGRGHGKIKSGQIWIWQ 137  
 Db 55 -CEKPYEKEILSNIGIMKPG-LNALIGPTGGKSSLLDVLAARKDPSGL-SGDVLINGA 111  
 QY 138 PSSPQLVRKC-VAHVQHQLLENLTRETAFIAQMRLPRTFSQQRKRVEDVIAELR 196  
 Db 112 PRANP--KNSGVYVQDDVWMTLTRENLOFSAALRLATTMTNHEKNERINRVIOELG 169  
 QY 197 LROCADTRVGNMYRGLSGGERRSVIGVQLLWPGILIDEPSTGLSDSFTAHNLVKTL 256  
 Db 170 LDKVADSKVGTQIRGVSGGERKETSIGMELITDPSILFDLPTGLDSTANAVLLLK 229  
 QY 257 RLAKGNRLVLIHQPRSDIFRLDLVLLMTSGTPIYLGAAQHMVOYFTAGYPCPRYSN 316  
 Db 230 RMSKQRTIIFSIHQPRYSIFIKLFDLSLTLASRLMFGHGAQALGFESAGYHCEAYNN 289  
 QY 317 PADFYVDLTSIDRR---SREQLATRE--KAQSLAALFLEKVRDL--DDFLWKAEK-- 366  
 Db 290 PADFFLDINGDSTAVLNREEDEFKATEIEIPSKQDKPIEKIAEIVVNSSPYK-ETKAE 348  
 QY 367 -----DLDEDTCVSSVTPPLDNCPLPFTKMPGAVQVQFTTLIRQINDFRDLPTLLI 419

Db 349 LHQSGGEKKKITVPKEISYTTSTFC-----HQLRWVSKRSFKVLLGNPOASTA 397  
 QY 420 HGAEACILMSMTIGFLYFGHGSIQLSFMDTAALLFMIGALIPFNVLIDVISKYS----- 473  
 Db 398 QIIVTVVLGLVIGAIYFGLKNDSTGICNRAGVLFFL-----TTNQCFSSVSAVE 446  
 QY 474 ----ERAMLYYELEDGLYTTGTPYFFAKILGE-LPEHCAYIIIIYGMPTYWLANLRPGLQPF 528  
 Db 447 LFVVEKCLFHEIYISGYRVSSYFLGKLLSDLLPMRLPSIIITCIYFMIGLKPADAF 506  
 QY 529 LLHFLVLMVWFCRIMALAALPTFHMASFFSNALYNSFYLAGGFMINLSLWTPA 588  
 Db 507 FVMFTLMMVAYSASSMALAIAAGQSVSVATLLMTICFVFMIFSGLLVNLTTIASWLS 566  
 QY 589 WISKVSEFLWCPEGLMKIOFSRTYKPLGNLT-----IAVSGDKIL--SAMELDSYP 639  
 Db 567 WLQYFSIPRYGFTALQHNEFLQGNF--CPGLNATGNNPCNYATCTGEEYLVKQIGIDLSPWG 625  
 QY 640 LYAIVLIVIGLSGGFMVLYVSLRFIKQ 667  
 Db 626 LMKHVALACMIVIFLTIAVLLKLLFKX 653

Search completed: March 17, 2004, 19:53:53  
 Job time : 27.9237 secs